

PERMATEX, INC.

10 COLUMBUS BLVD.
HARTFORD, CT 06106
TELEPHONE: (877) 376-2839

ISSUED 11/14/01
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MATERIAL SAFETY DATA SHEET

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Duro(R) Epoxy Putty Sealant
Item No.: 81512
Part No.: SM-100
Product Type: Epoxy

2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
Epoxy resin	25068-38-6	10-40
Polymercaptan	Proprietary	5-20
Substituted aminophenol	90-72-2	1-10
Benzyl alcohol	100-51-6	0.1-5

Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
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Exposure Limits (STEL) Ingredients	ACGIH (TLV)	OSHA (PEL)
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3. HAZARDS IDENTIFICATION

Toxicity: May cause irritation and sensitization to sensitive skin and mild irritation to eyes. May cause irritation if swallowed.

Primary Routes of Entry: Skin contact

Signs and Symptoms of Exposure: Prolonged or repeated exposure may cause allergic sensitization.

Existing Conditions Aggravated by Exposure: Dermatitis and skin allergy

Ingredients	Literature Referenced Target Organ and Other Health Effects	Carcinogen		
		NTP	IARC	OSHA
Epoxy resin	ALG IRR	NO	NO	NO
Polymercaptan	No Data	NO	NO	NO
Substituted aminophenol	ALG IRR	NO	NO	NO
Benzyl alcohol	ALG CNS COR IRR	NO	NO	NO

Abbreviations

ALG Allergen
COR Corrosive

CNS Central nervous system
IRR Irritant

4. FIRST AID MEASURES

Ingestion: Do not induce vomiting. Keep individual calm. Obtain medical attention.

Inhalation: Remove to fresh air. If symptoms persist, obtain medical attention.

Skin Contact: Wash thoroughly with soap and water.

Eye Contact: Flush at least 15 minutes with clear water. Obtain medical attention.

5. FIRE FIGHTING MEASURES

Flash Point: More than 300°F Method: Tag Open Cup

Recommended Extinguishing Agents: Carbon dioxide, foam, dry chemical

Special Firefighting Procedures: Fire fighters should wear self-contained breathing apparatus.

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5. FIRE FIGHTING MEASURES

(continued)

Hazardous Products formed
by Fire or Thermal Decomp Aldehydes; acids; oxides of carbon, sulfur,
and nitrogen; ammonia; other unknown potentially
toxic contaminants

Unusual Fire or
Explosion Hazards: None

Explosive Limits:
(% by volume in air) Lower Not available
(% by volume in air) Upper Not available

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case
of spill or leak: Avoid personal contact. Eliminate ignition sources
Ventilate area. Dike, contain and absorb with clay
clay or other suitable material. (For large spills
pump to storage/salvage vessels. Soak up with an
inert absorbent such as clay, sand, or other
suitable material and dispose of properly. Flush
area with water to remove trace residue.) Prevent
spill from entering drainage/sewer systems,
waterways, and surface waters.

7. HANDLING AND STORAGE

Safe Storage: Store in a cool, dry area away from high
temperatures and flames.
Handling: Avoid contact with skin, eyes, or clothing. Wash
thoroughly with soap and water after using and
particularly before eating, drinking, smoking,
applying cosmetics, or using toilet facilities.
Laundry contaminated clothing and protective gear
before reuse. Discard contaminated leather
articles. Handle mixed resin and hardener in
accordance with the potential hazard of the curing
agent used. Provide appropriate
ventilation/respiratory protection against
decomposition products (see Section 10) during
welding/flame cutting operations and particulates
(silica) during sanding/grinding operations.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Safety glasses or goggles.
Skin: Polyethylene gloves.
Ventilation: General mechanical is satisfactory. If odor is
disagreeable, use local exhaust.
Respiratory: None needed in normal use with proper ventilation.

See Section 2 for Exposure Limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Resin: Grey putty; Hardener: Black putty
Odor: Slight mercaptan
Boiling Point: Not available
pH: Does not apply
Solubility in Water: Negligible
Specific Gravity: 1.9
Volatile Organic Compound (EPA Method 24) 1.25%; 23.8 grams per liter
Vapor Pressure: Nil at 78°F
Vapor Density: More than 1
Evaporation Rate (Ether = 1) Not available

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10. STABILITY AND REACTIVITY

Stability: Stable
Hazardous Polymerization: Will not occur
Incompatibility: Strong oxidizing agents.
Conditions to Avoid: Exposure to open flames or excessive heat.
Hazardous Decomposition Products (non-thermal): Aldehydes; acids; oxides of carbon, sulfur and nitrogen; other unknown and potentially toxic contaminants.

11. TOXICOLOGICAL INFORMATION

Acute oral effects: LD50 more than 11.4 grams/mg (rat)
Acute dermal effects: Slight irritant (rabbit)
Eye irritation: Slight irritant (rabbit)

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended methods of disposal: Incinerate following EPA and local regulations.
EPA Hazardous Waste Number: NH - Not a RCRA Hazardous Waste Material

14. TRANSPORTATION INFORMATION

DOT (49 CFR 172)
Domestic Ground Transport
Proper Shipping Name: Unrestricted
Hazard Class or Division: Unrestricted
Identification Number: None
Marine Pollutant: None
IATA
Proper Shipping Name: Unrestricted
Class or Division: Unrestricted
UN or ID Number: None

15. REGULATORY INFORMATION

CA Proposition 65: No Prop65 chemicals are known to be present.

16. OTHER INFORMATION

Estimated NFPA(R) Code:
Health Hazard: 1
Fire Hazard: 1
Reactivity Hazard: 0
Specific Hazard: Does not apply

Estimated HMIS(R) Code:
Health Hazard: 1*
Flammability Hazard: 1
Reactivity Hazards: 0
Personal Protection: See Section 8.

NFPA is a registered trademark of the National Fire Protection Assn.
HMIS is a registered trademark of the National Paint and Coatings Assn.

Prepared By: Denise Boyd
Title: Health & Safety Manager
Company: Permatex, Inc. 10 Columbus Blvd. Hartford, CT 06106
(24hr.) Phone: 1-87-Permatex (877-376-2839)
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